NC/QC/DD-ST/2018-19/VC-C1 Date: 11-10-2018

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to roads and drains at Vinayakanagar Cross road and Surrounding area in Ward No 12 Shettyhalli, in Shettyhalli Sub-division.}

Ref.: Material testing/QC/18-19,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager (West), KRIDL.

PHYSICAL TESTS ON CEMENT

Brand : ACC
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**186 min**	Shall not be less than 30 min
2	Final setting time	**255 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.78 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.35 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.43 N/Sq mm**	Shall not be less than 27 N/Sqmm

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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NC/QC/DD-ST/2018-19/VC-PCC2 **Date: 15-10-2018**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements to roads and drains at Vinayakanagar Cross road and Surrounding area in Ward No 12 Shettyhalli, in Shettyhalli Sub-division.}

Ref.: Material testing/QC/18-19,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager (West), KRIDL.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	68.45	0 -20	30- 70
10mm	39.15	0 -5	10- 35
4.75mm	3.90	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	97.25	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	89.10	60-95	75-100	85-100	
01.18	71.05	30-70	55-90	75-100	
600.mic	48.60	15-34	35-59	60-79	
300.mic	17.45	5-20	8-30	12-40	
150.mic	8.75	0-10	0-10	0-10	

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NEW TECHNOLOGIES TO INNOVATE

NC/QC/DD-ST/2018-19/VC-S1 **Date: 27-10-2018**

1. TEST REPORT ON REINFORCEMENT STEEL:

Sub: Testing of Reinforcement Steel of diameter 10 & 12 mm **TMT Steel.**
{Project*: Improvements to roads and drains at Vinayakanagar Cross road and Surrounding area in Ward No 12 Shettyhalli, in Shettyhalli Sub-division.}

Ref.: Material testing/QC/18-19,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager (West), KRIDL.

TABLE – 1

SL No	Details	For 10 mm		For 12 mm	
		Test Results	Min Req. as per IS 1786-2008	**Test Results**	Min Req. as per IS 1786-2008
01	Observed diameter of bar	**10.0 mm**	10.0 mm	**12.0mm**	12.0mm
02	Observed Wt/m Length **Kg/m**	**0.622**	0.567	**0.893**	0.834
03	Proof stress/Yield stress, fy , **N/mm^2**	**549.0**	500.0	**546.0**	500.0
04	Bend/ Re bend Test	**Ok**	---	**Ok**	---
05	Percentage of Elongation, %	**19.30**	12.00	**20.60**	12.00
06	Ultimate Tensile Strength **N/mm^2**	**642.0**	545.0	**638.0**	545.0

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NC/QC/DD-ST/2018-19/VC-CB1 Date: 19-11-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to roads and drains at Vinayakanagar Cross road and Surrounding area in Ward No 12 Shettyhalli, in Shettyhalli Sub-division.}

Ref.: Material testing/QC/18-19,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager (West), KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	12-11-18	19-11-18	07	22500	365	16.22	16.15
	002	"	"	"	"	350	15.56	
	003	"	"	"	"	375	16.67	

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NC/QC/DD-ST/2018-19/VC-CB4 Date: 27-11-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to roads and drains at Vinayakanagar Cross road and Surrounding area in Ward No 12 Shettyhalli, in Shettyhalli Sub-division.}

Ref.: Material testing/QC/18-19,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager (West), KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	20-11-18	27-11-18	07	22500	370	16.44	**16.44**
	002	"	"	"	"	360	16.00	
	003	"	"	"	"	380	16.89	

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NC/QC/DD-ST/2018-19/VC-CB1A

Date: 10-12-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to roads and drains at Vinayakanagar Cross road and Surrounding area in Ward No 12 Shettyhalli, in Shettyhalli Sub-division.}

Ref.: Material testing/QC/18-19,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager (West), KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	12-11-18	10-12-18	28	22500	500	22.22	**22.59**
	002	"	"	"	"	520	23.11	
	003	"	"	"	"	505	22.44	

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NC/QC/DD-ST/2018-19/VC-CB3A

Date: 15-12-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to roads and drains at Vinayakanagar Cross road and Surrounding area in Ward No 12 Shettyhalli, in Shettyhalli Sub-division.}

Ref.: Material testing/QC/18-19,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager (West), KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	17-11-18	15-12-18	28	22500	520	23.11	*22.74
	002	"	"	"	"	500	22.22	
	003	"	"	"	"	515	22.89	

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NEW TECHNOLOGIES TO INNOVATE

NC/QC/DD-ST/2018-19/VC-CB5A

Date: 21-12-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to roads and drains at Vinayakanagar Cross road and Surrounding area in Ward No 12 Shettyhalli, in Shettyhalli Sub-division.}

Ref.: Material testing/QC/18-19,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager (West), KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	23-11-18	21-12-18	30	22500	525	23.33	**22.81**
	002	"	"	"	"	510	22.67	
	003	"	"	"	"	505	22.44	

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